

0906369-062901

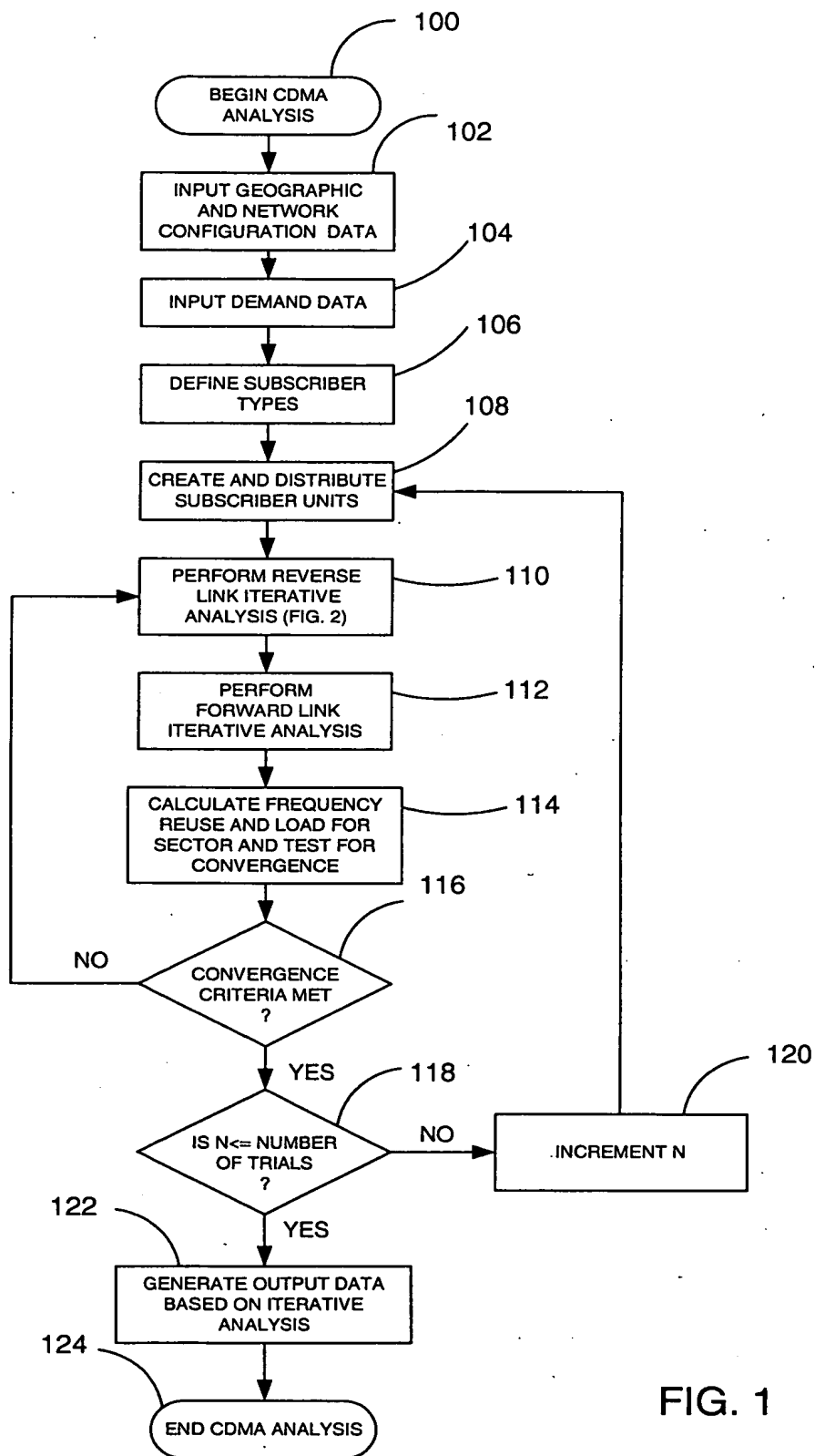


FIG. 1

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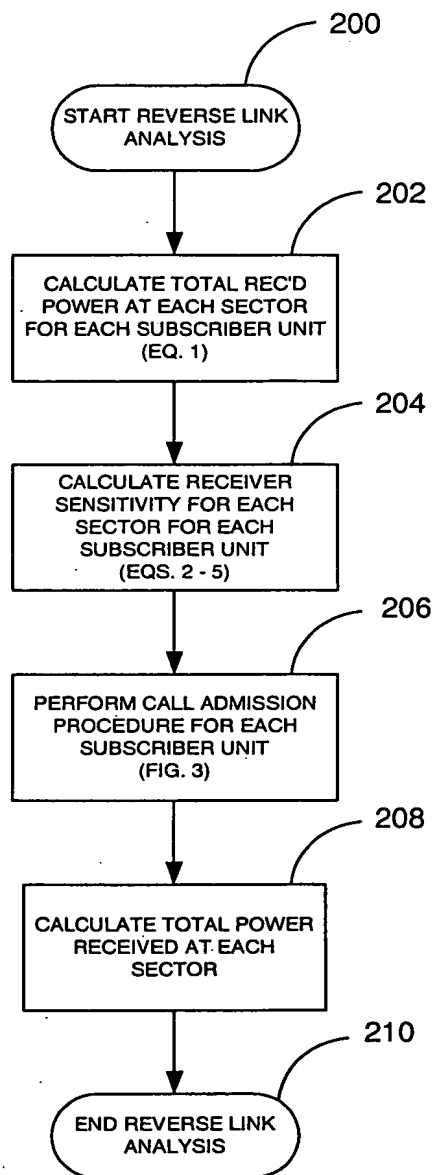


FIG. 2

FIG. 3

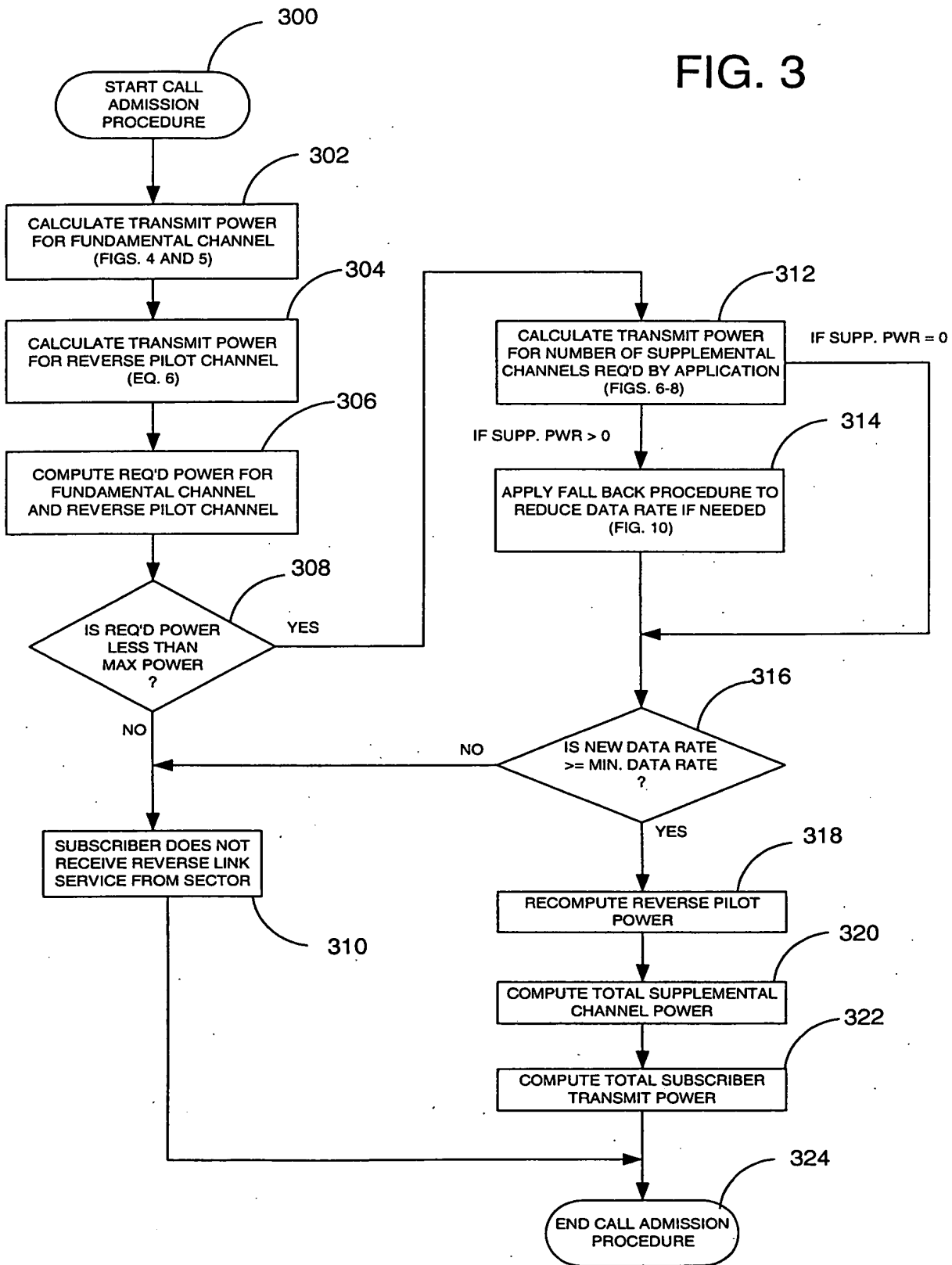


FIG. 3

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graph TD
    400([TRANSMIT POWER CALCULATION]) --> 402[COMPUTE EIRP FOR FUNDAMENTAL CHANNEL WITHOUT SOFT HAND-OFF GAIN (EQS. 7 AND 8)]
    402 --> 404[COMPUTE POINTING DIRECTION OF MAIN LOBE OF SUBSCRIBER UNIT]
    404 --> 406[COMPUTE ANTENNA GAIN]
    406 --> 408{IS SECTOR K IN ACTIVE SET FOR FCH AND IS ACTIVE SET > 1 ?}
    408 -- YES --> 410{IS SOFT HAND-OFF SELECTED ?}
    408 -- NO --> 416[COMPUTE TRANSMIT POWER FOR FUNDAMENTAL CHANNEL BASED ON EIRP (FIG. 5)]
    410 -- YES --> 412[COMPUTE SOFT HAND-OFF GAIN]
    410 -- NO --> 416
    412 --> 414[RECOMPUTE EIRP FOR FUNDAMENTAL CHANNEL WITH SOFT HAND-OFF GAIN (EQ. 9)]
    414 --> 416
    416 --> 418([END TRANSMIT POWER CALCULATION])

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FIG. 4

FIG. 4

FIG. 5

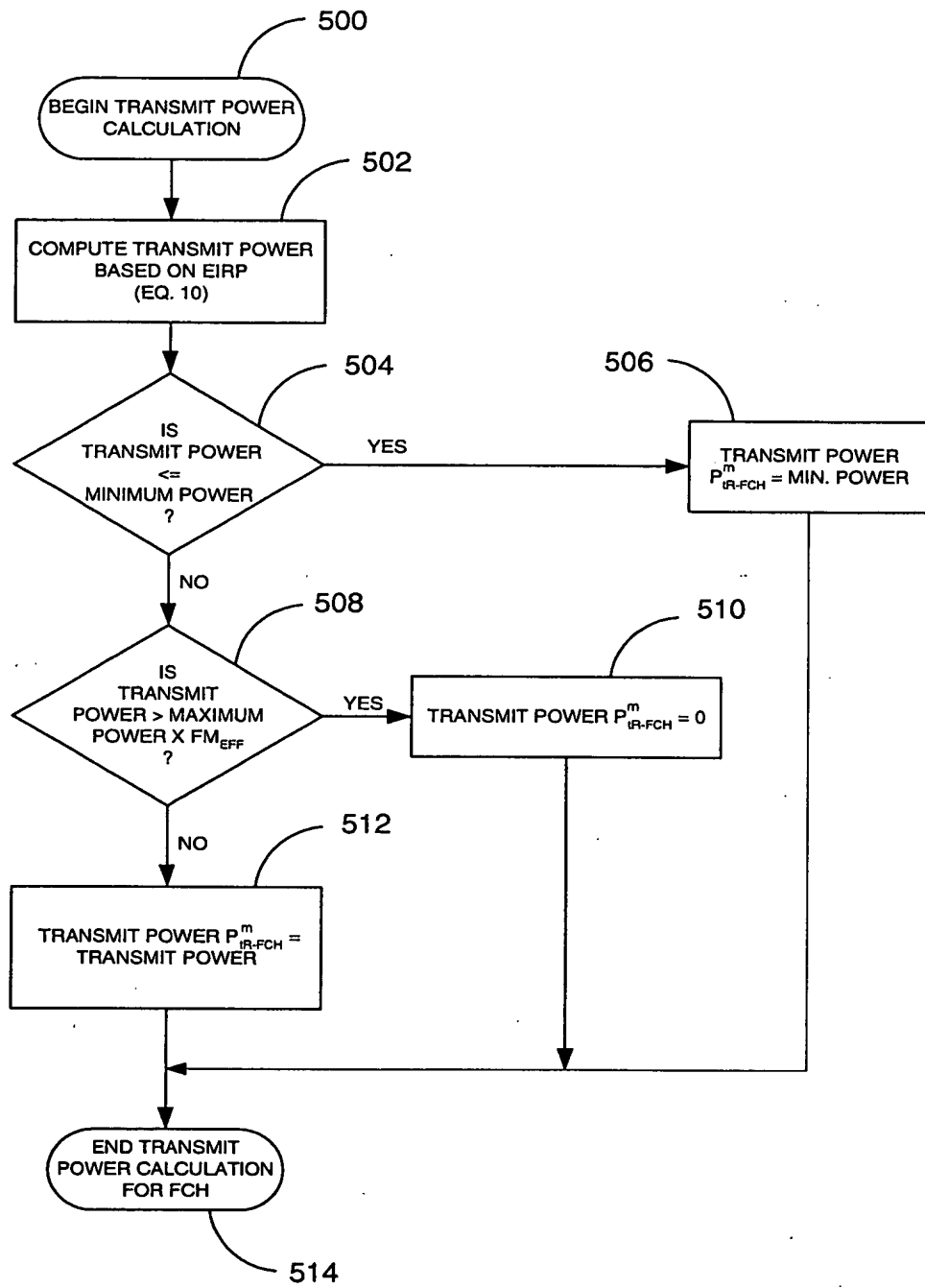


FIG. 5

FIG. 6

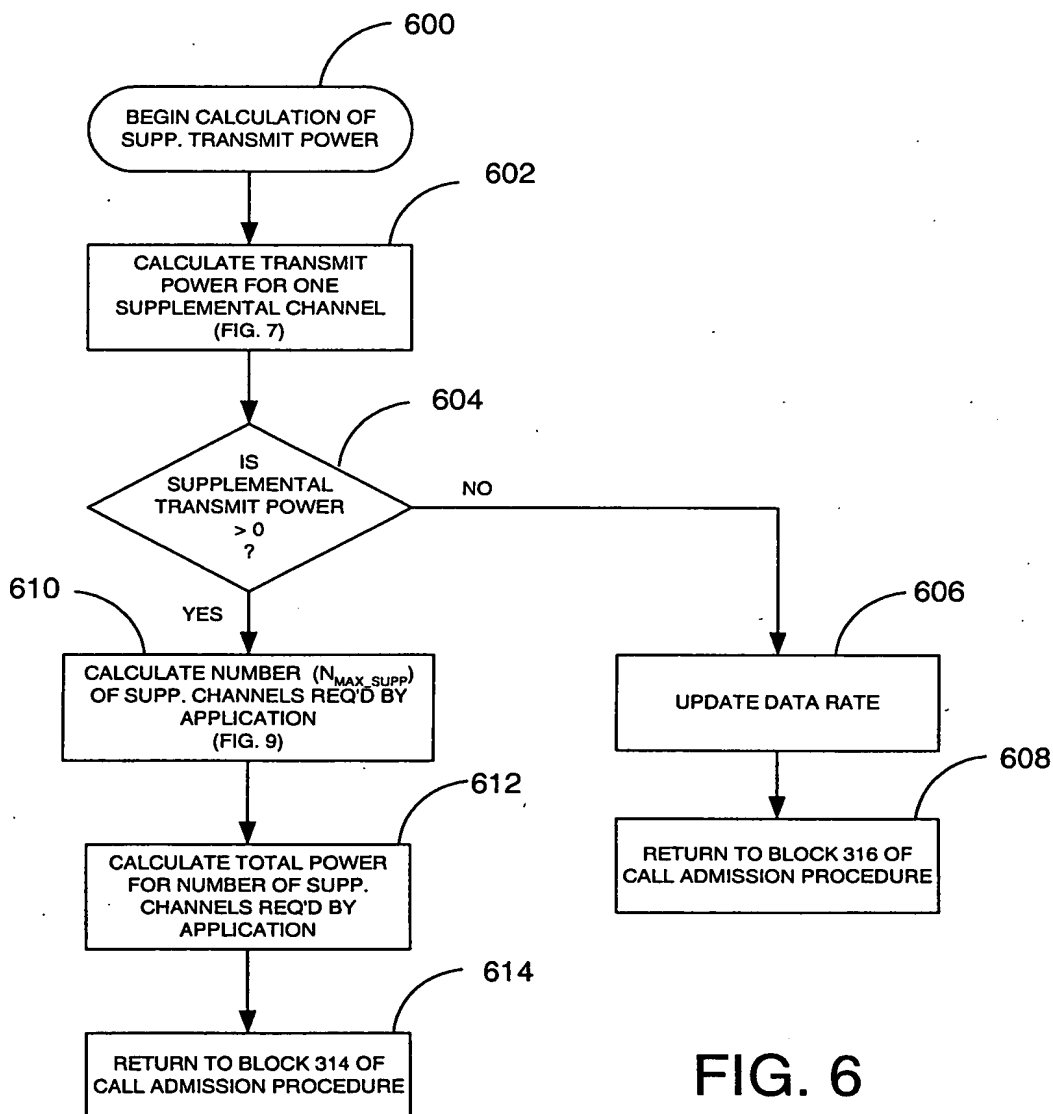


FIG. 6

FIG. 7

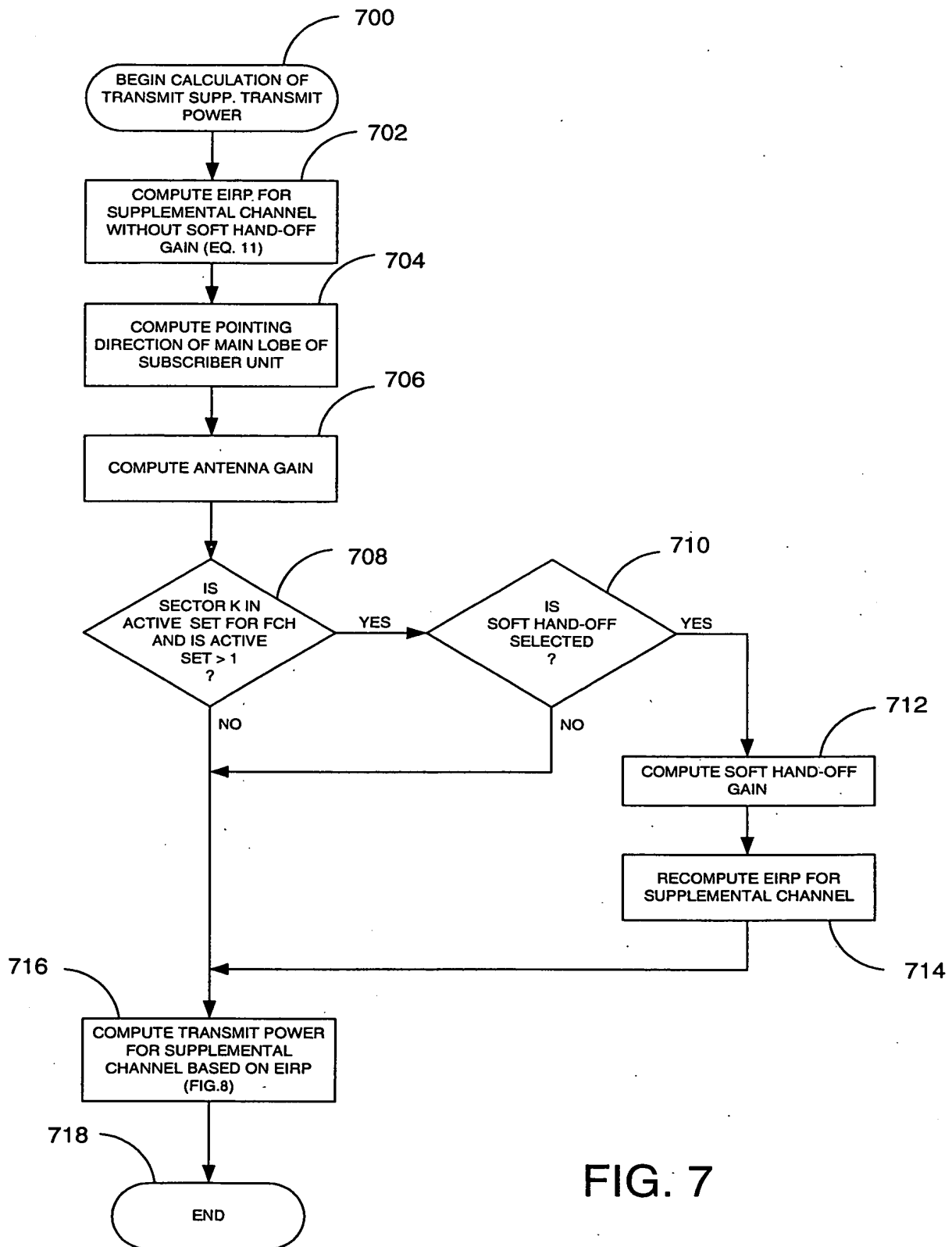


FIG. 7

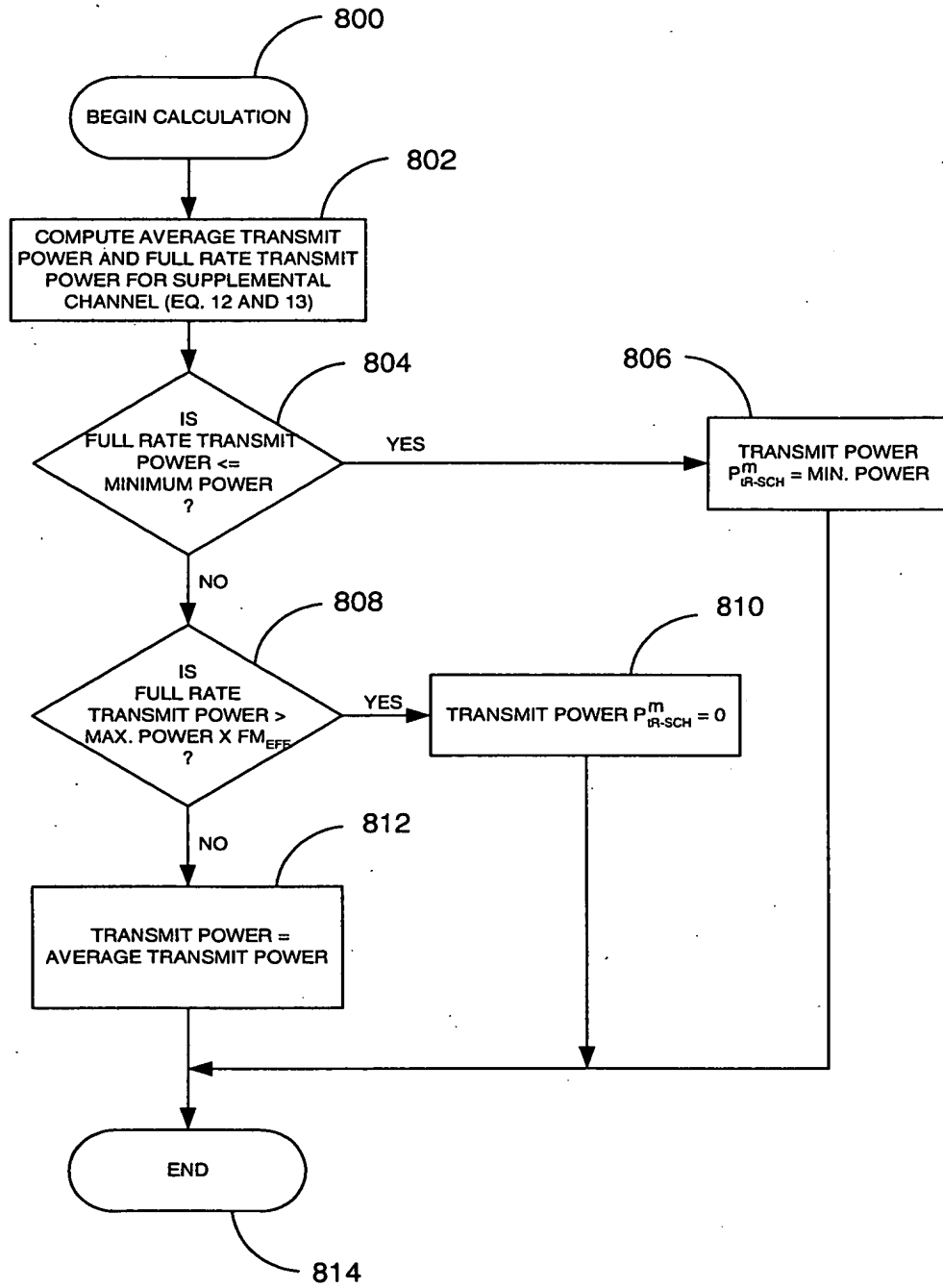


FIG. 8


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graph TD
    900([CALCULATE N_RVS_SUPP]) --> 902{IS TOTAL SUBSCRIBER  
SUPPLEMENTAL  
TRANSMIT POWER > 0 ?}
    902 -- NO --> 904[N_RVS_SUPP = 0]
    902 -- YES --> 906[COMPUTE MAXIMUM NUMBER  
N_RVS_MAX  
OF SUPP. CHANNELS  
REQ'D BY APPLICATION]
    906 --> 908[COMPUTE NUMBER N_RVS_SUPP  
OF SUPP. CHANNELS SUPPORTED BY  
SUBSCRIBER UNIT WITHIN LIMITS OF  
ITS AVAILABLE TRANSMIT POWER  
(EQ. 14)]
    908 --> 910[N_RVS_SUPP = LESSER OF  
N_RVS_MAX_SUPP AND N_RVS_SUPP]
    910 --> 912([END CALCULATION])
    904 --> 912
  
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FIG. 9

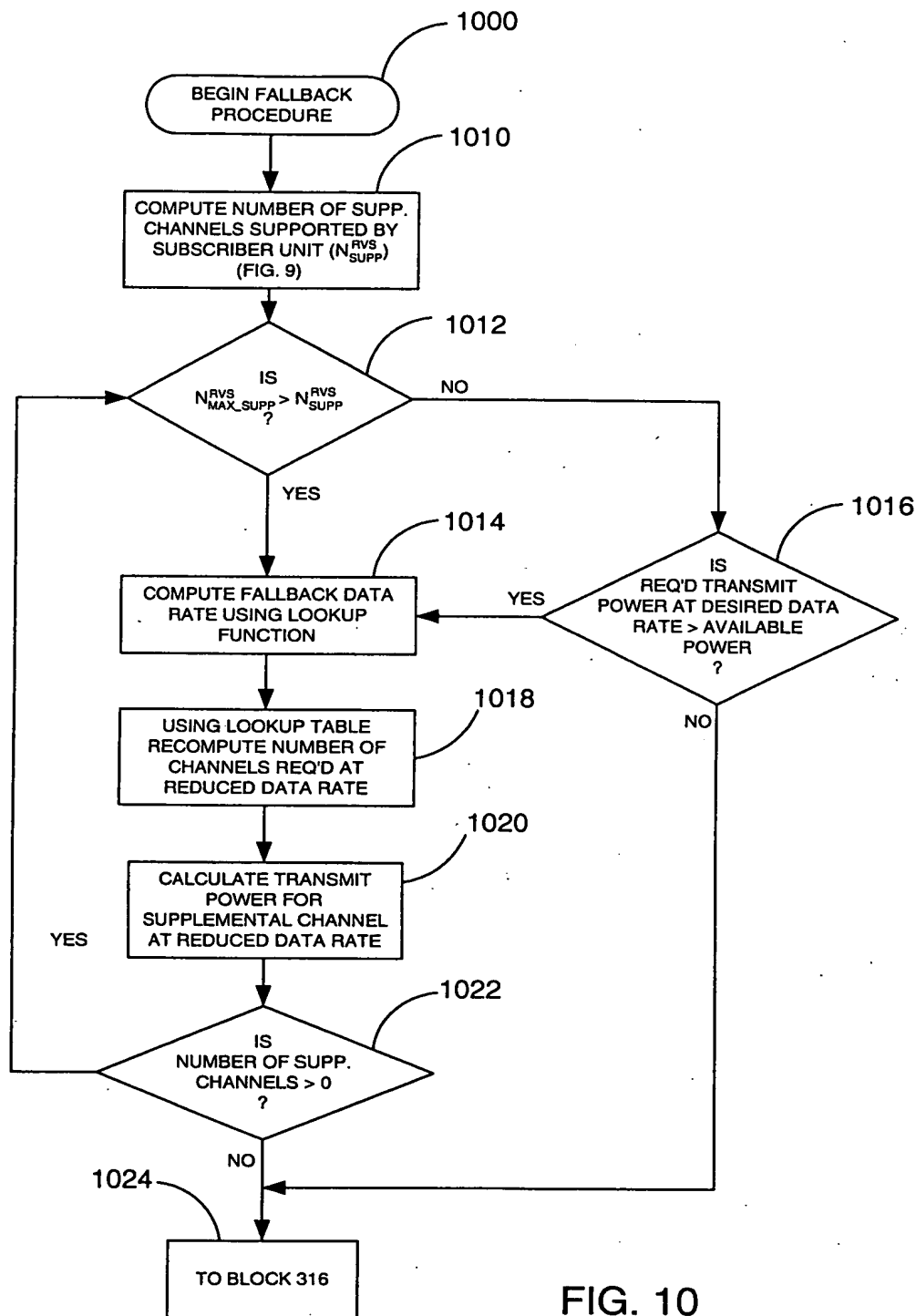
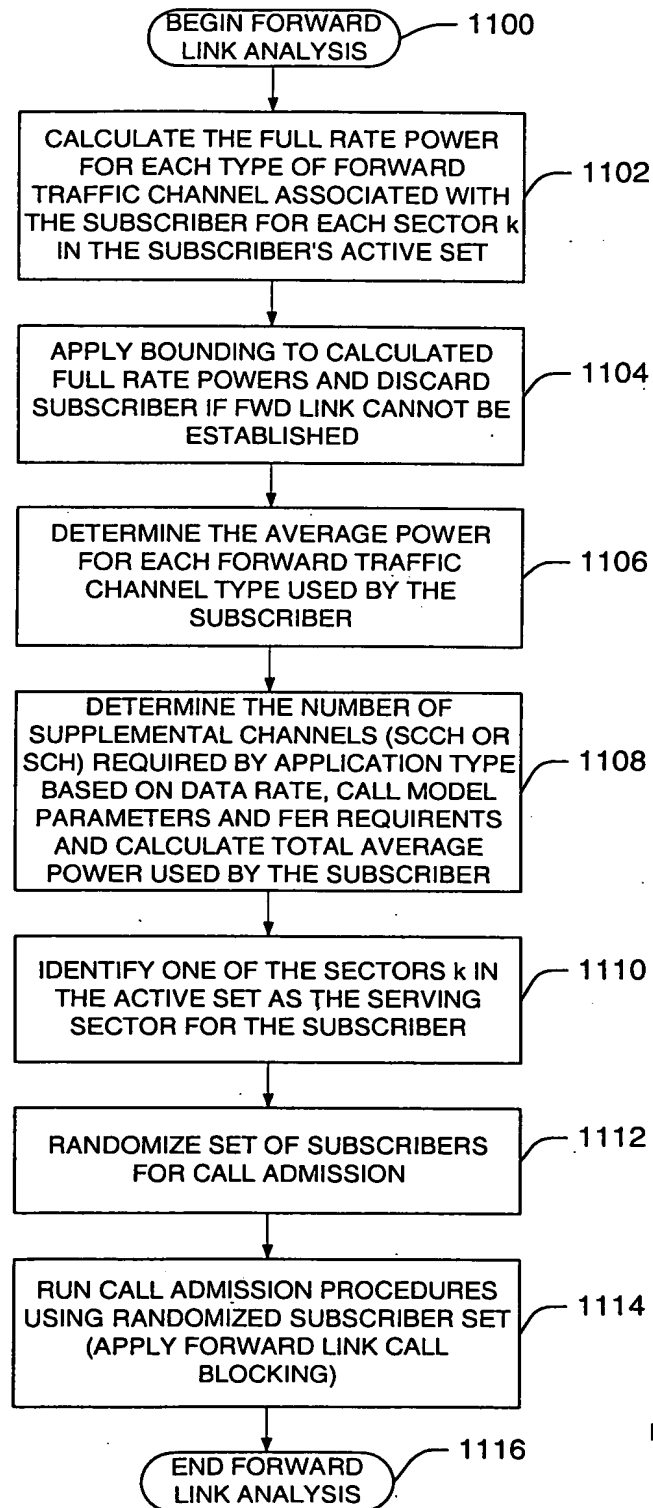


FIG. 10

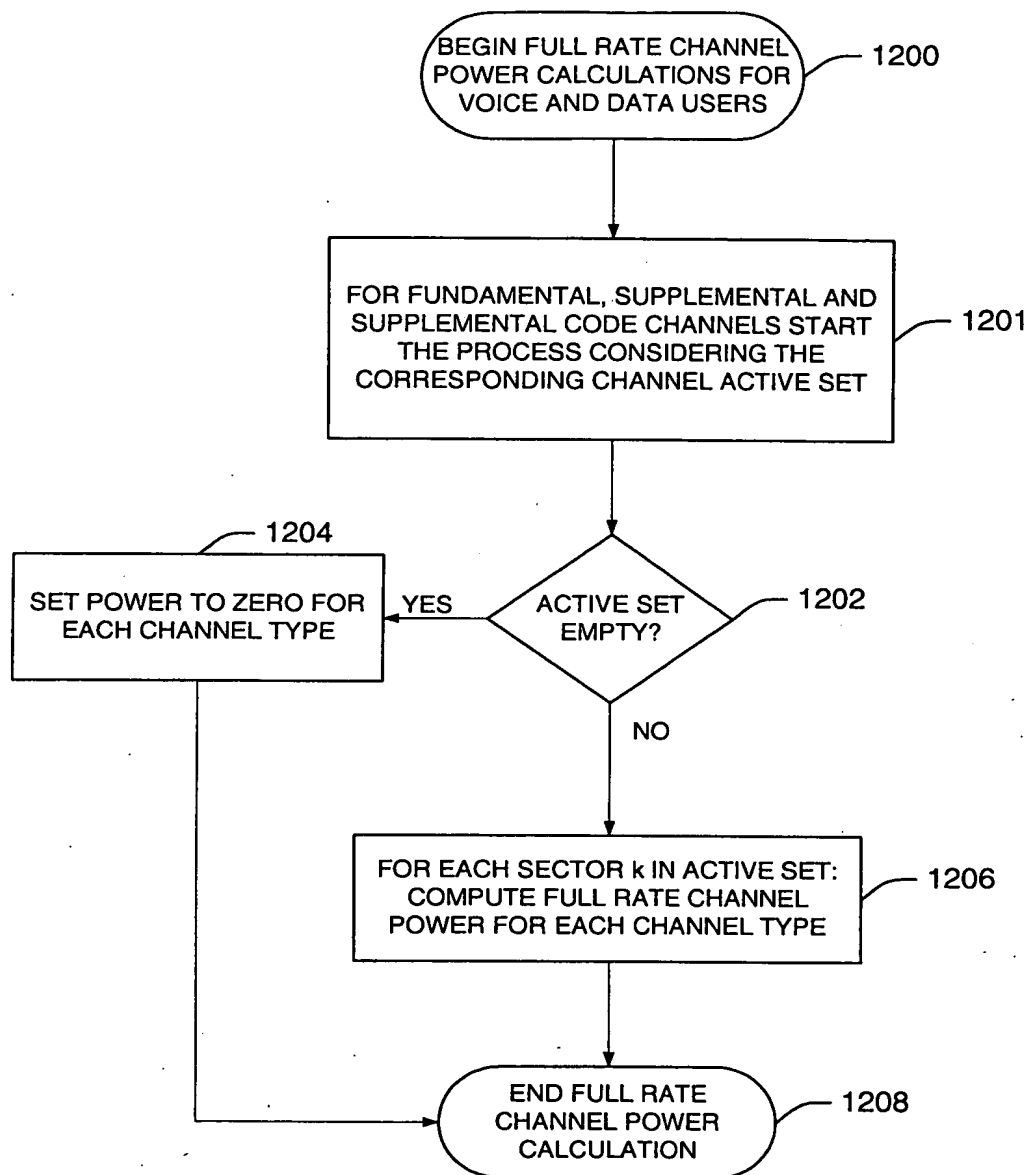
FALLBACK PROCEDURE

F O R E W O R D



FORWARD LINK
ANALYSIS
OVERVIEW
FIG. 11

FIG. 12



FULL RATE FORWARD
TRAFFIC CHANNEL
CALCULATIONS
FIG. 12

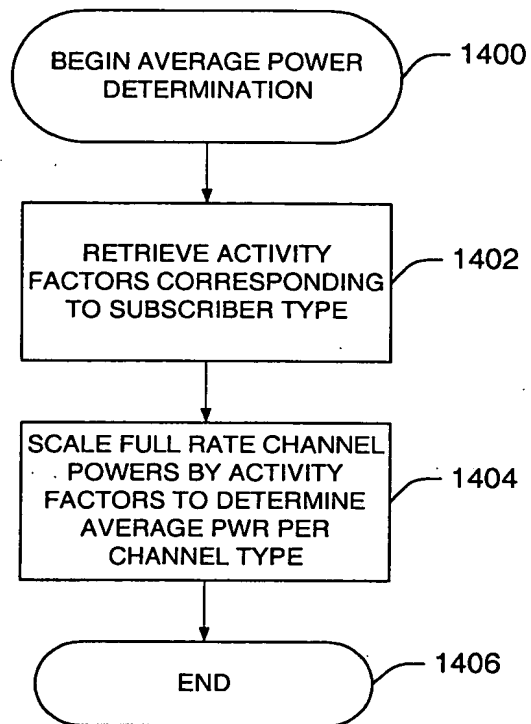
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graph TD
    1300([BEGIN BOUNDING]) --> 1302{CALCULATED POWER ABOVE MAXIMUM THRESHOLD FOR ALL SECTORS k?}
    1302 -- YES --> 1304[SET CALCULATED POWER TO ZERO FOR ALL SECTORS k ASSOCIATED WITH SUBSCRIBER]
    1304 --> 1306([BREAK FOR CURRENT SUBSCRIBER])
    1306 --> 1302
    1302 -- NO --> 1308{CALCULATED POWER ABOVE MAXIMUM THRESHOLD FOR SECTOR k?}
    1308 -- YES --> 1310[SET CALCULATED POWER TO MAXIMUM THRESHOLD VALUE FOR CURRENT SECTOR k IN THE CORRESPONDING CHANNEL ACTIVE SET]
    1308 -- NO --> 1312{CALCULATED POWER BELOW MINIMUM THRESHOLD FOR SECTOR k?}
    1312 -- YES --> 1314[SET CALCULATED POWER TO MINIMUM THRESHOLD VALUE FOR CURRENT SECTOR k IN THE CORRESPONDING CHANNEL ACTIVE SET]
    1312 -- NO --> 1316{ADDITIONAL SUBSCRIBERS?}
    1314 --> 1316
    1316 -- YES --> 1316
    1316 -- NO --> 1318([END BOUNDING])
    1318 --> 1300

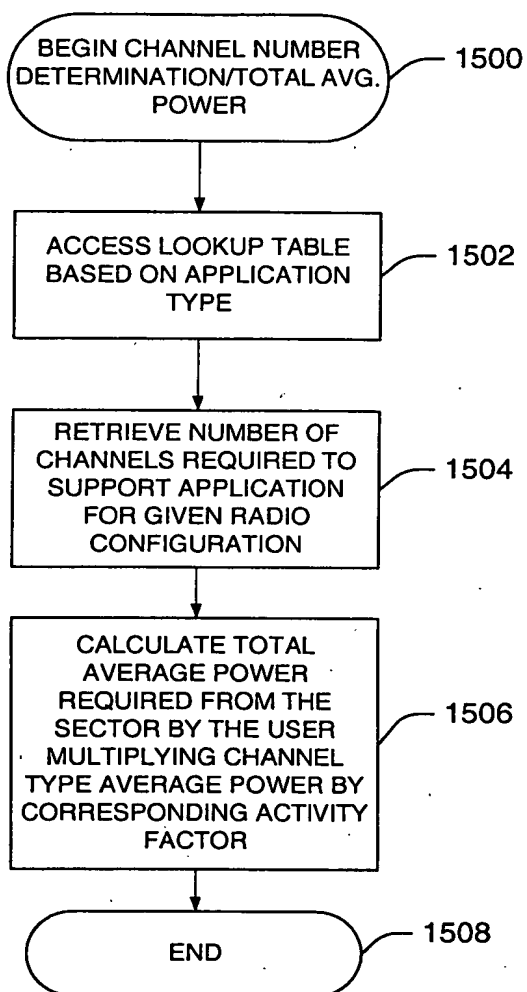
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FIG. 13

DETERMINE AVERAGE
POWER PER FORWARD
CHANNEL TYPE
FIG. 14

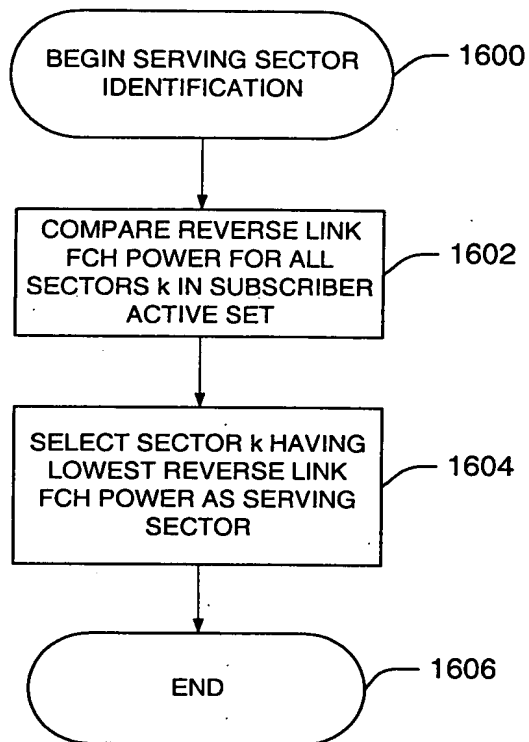


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DETERMINE TOTAL
AVERAGE POWER PER
SUBSCRIBER
FIG. 15

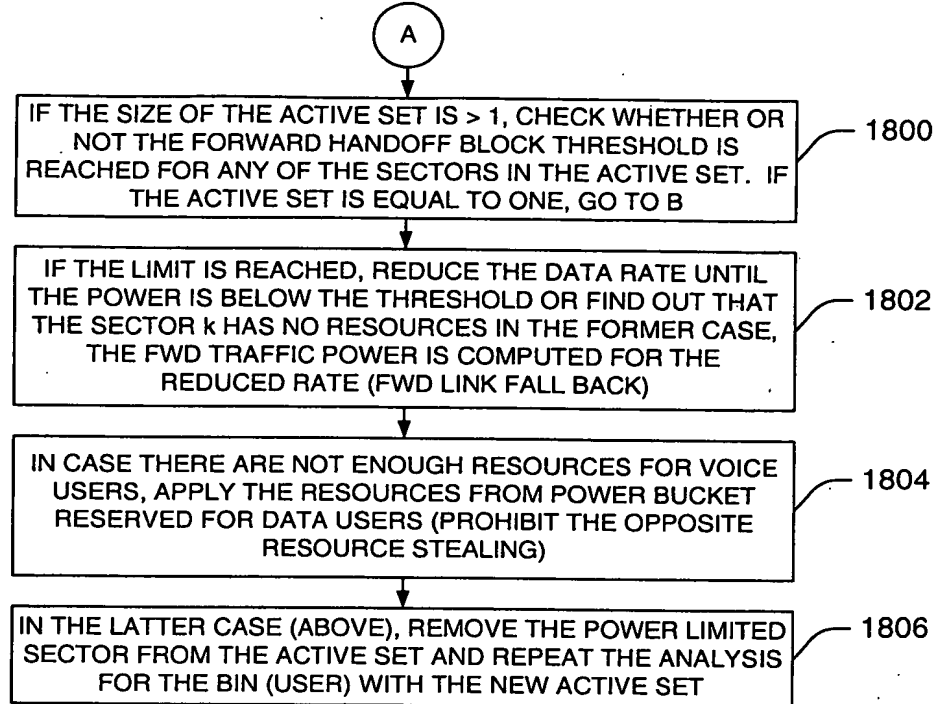
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IDENTIFY SERVING
SECTOR FOR TWO-
WAY
COMMUNICATIONS PER
SUBSCRIBER

FIG. 16

FROM FIG. 17



FROM FIG. 18A

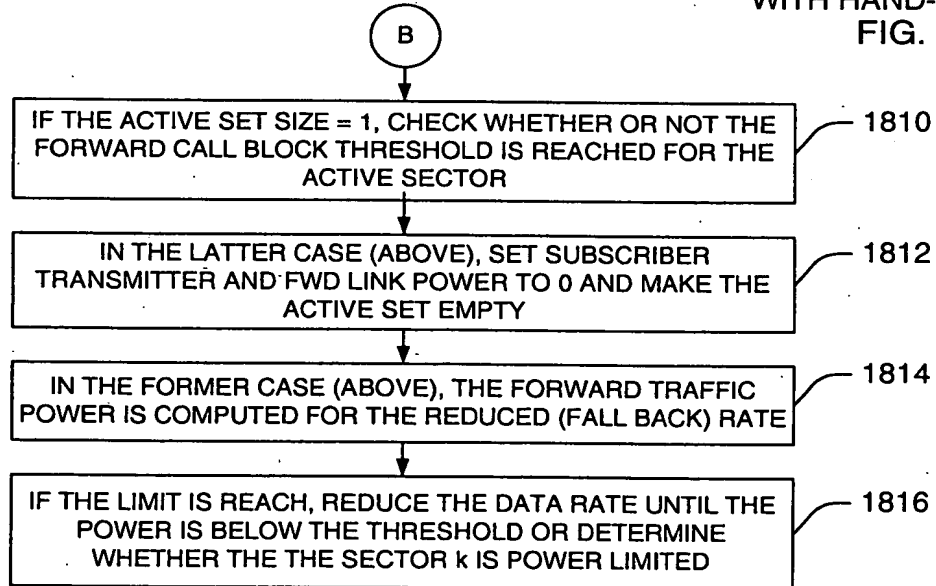
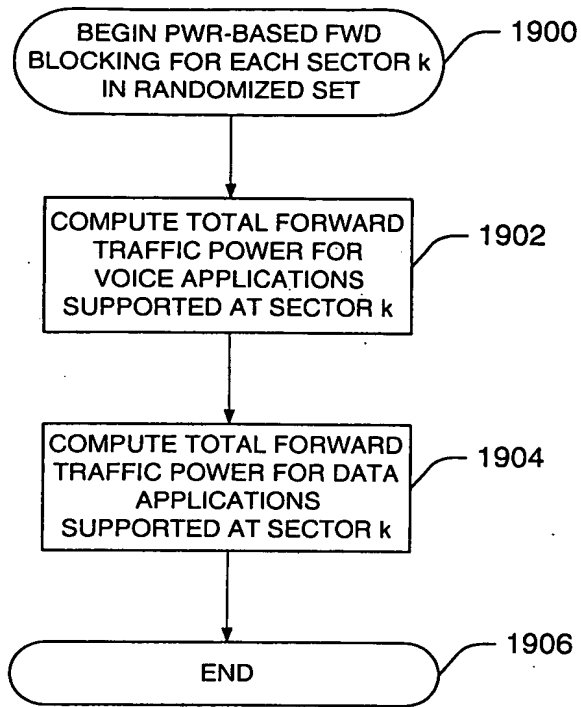
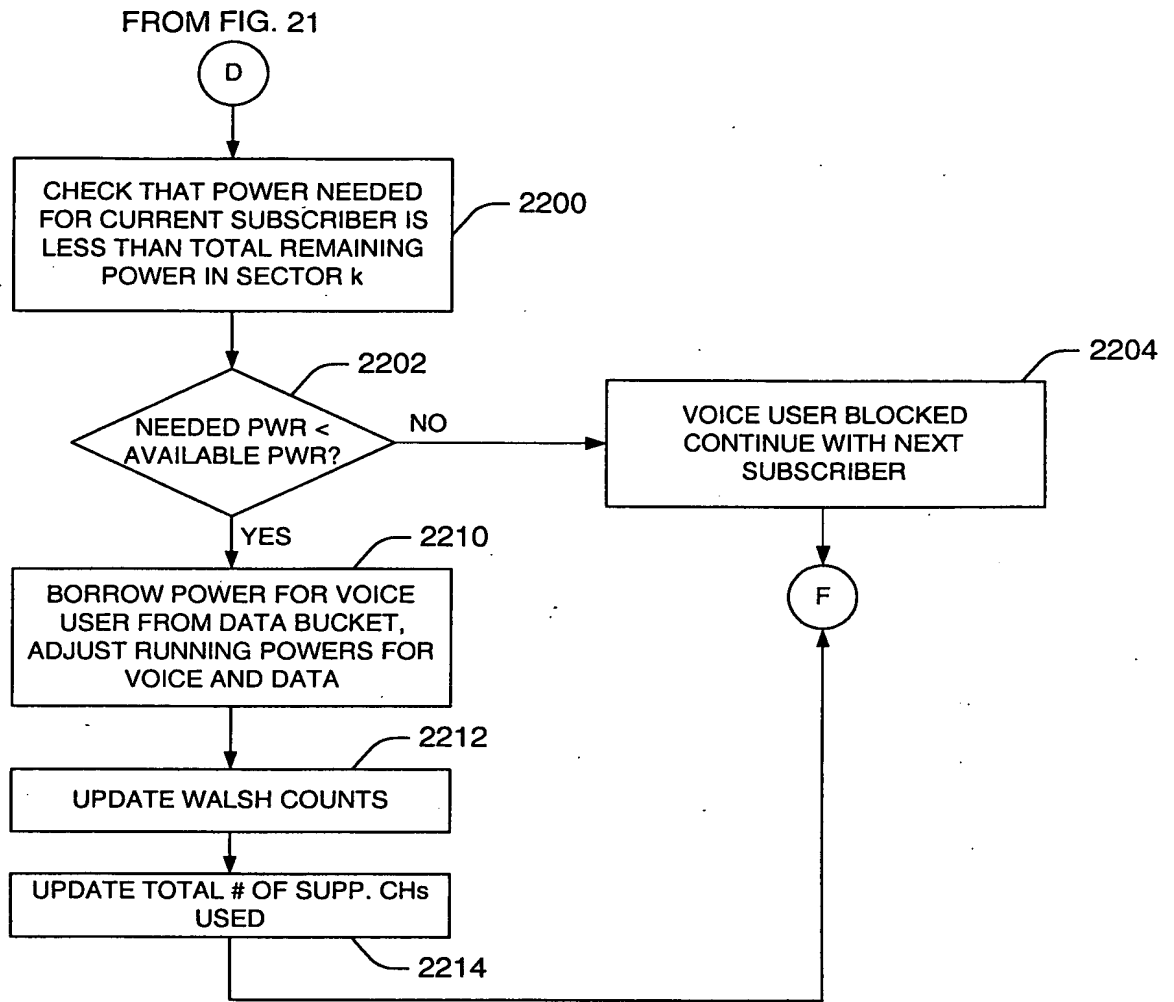
CALL BLOCKING
WITH HAND-OFF
FIG. 18ACALL BLOCKING, NO
HAND-OFF
FIG. 18B

FIG. 19



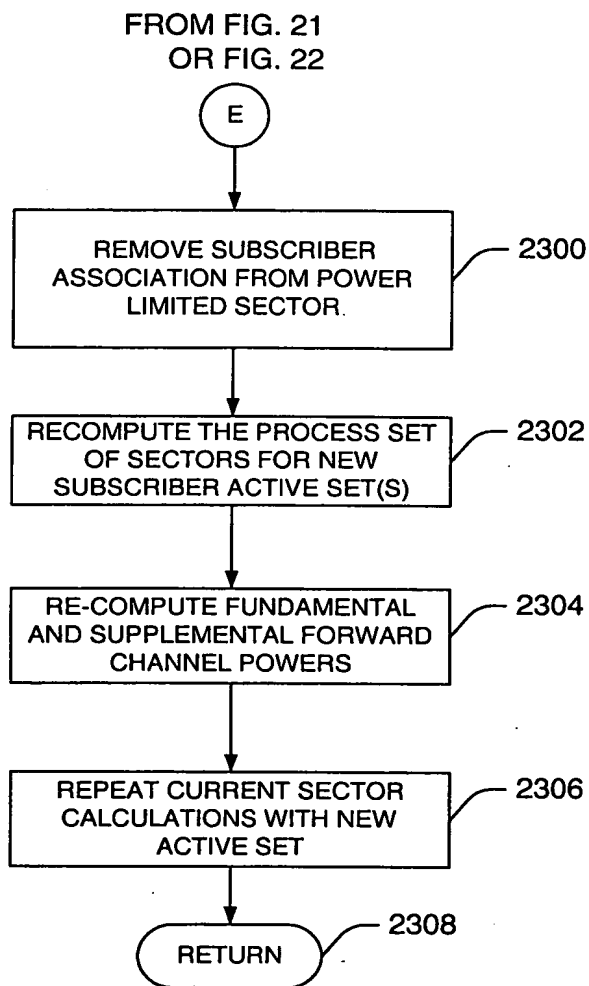
TOTAL VOICE AND
DATA PWR PER
SECTOR
FIG. 19

FIG. 22



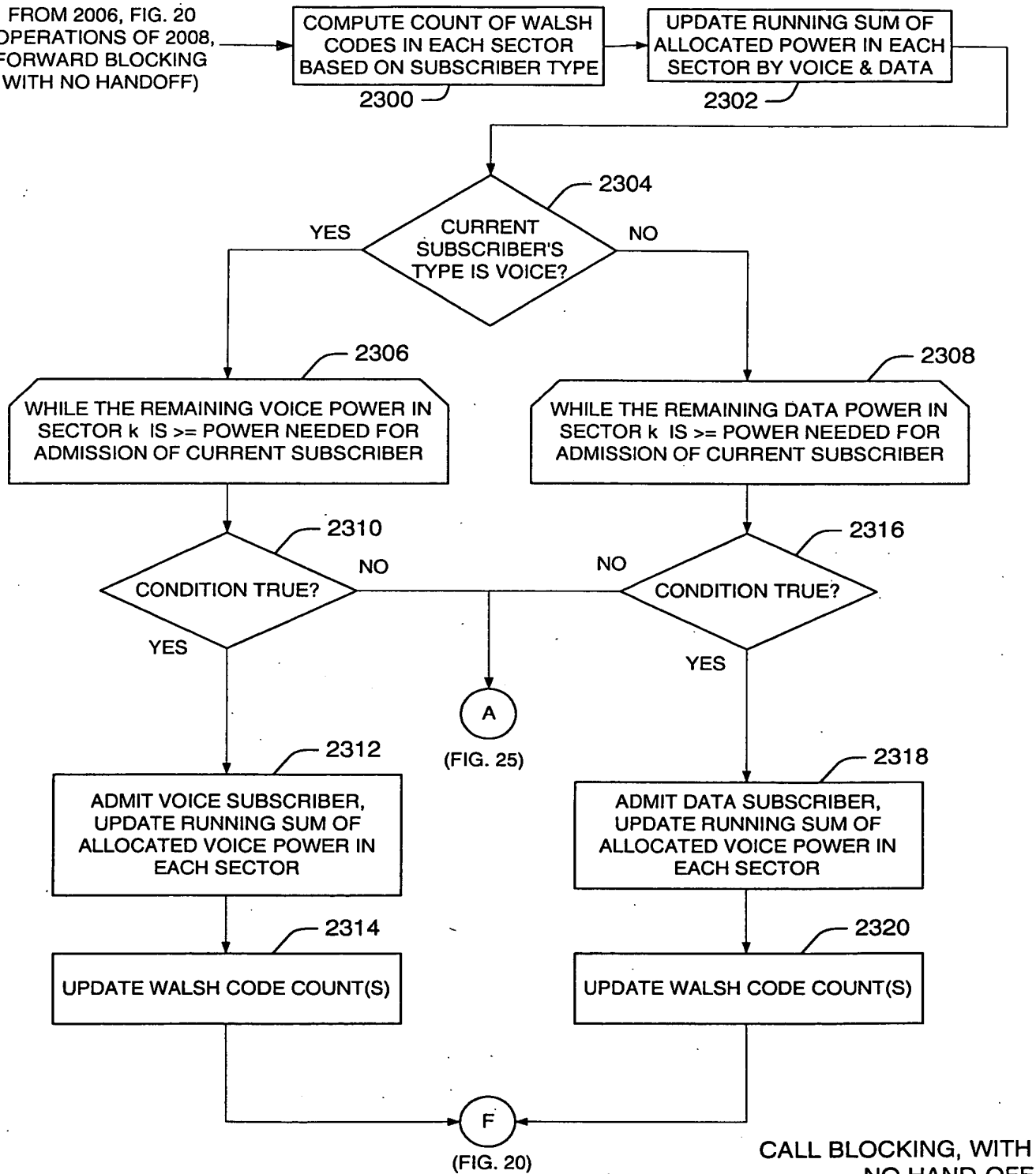
VOICE SUBSCRIBER
CALL ADMISSION VOICE
BUCKET CHECK
FIG. 22

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REMOVE POWER
LIMITED SECTOR
FIG. 23

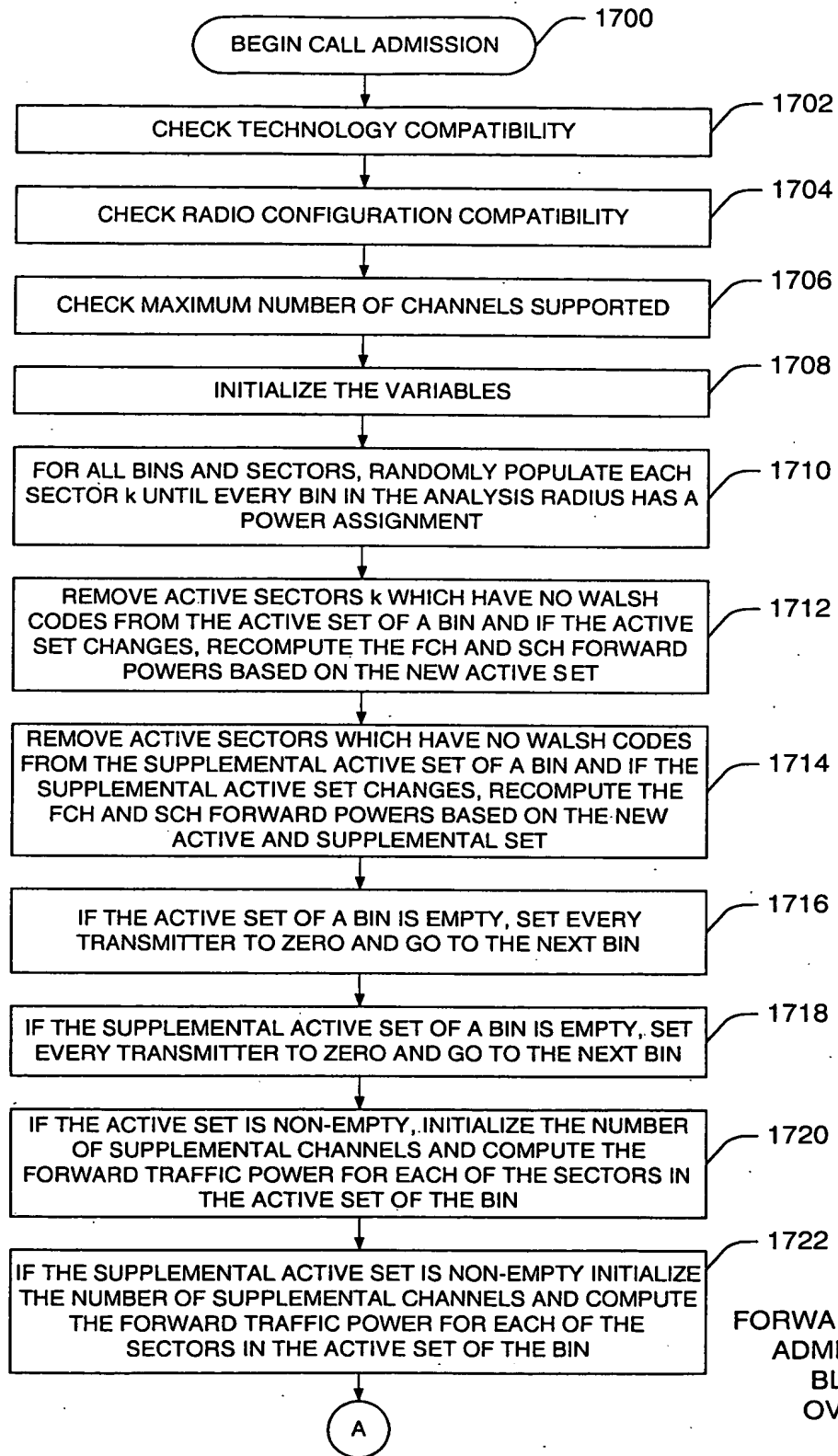
FROM 2006, FIG. 20
(OPERATIONS OF 2008,
FORWARD BLOCKING
WITH NO HANDOFF)



CALL BLOCKING, WITH
NO HAND-OFF

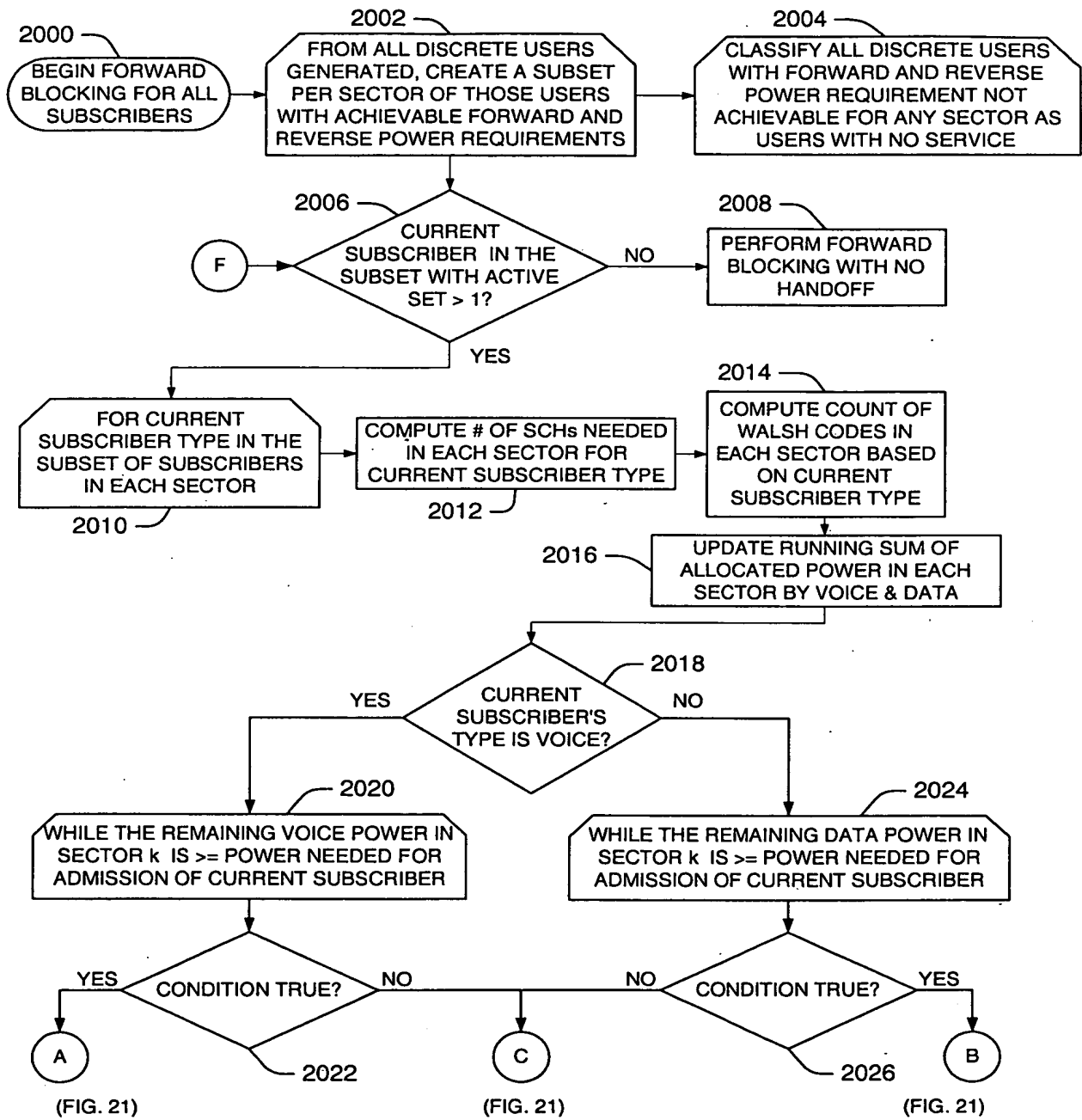
FIG. 24

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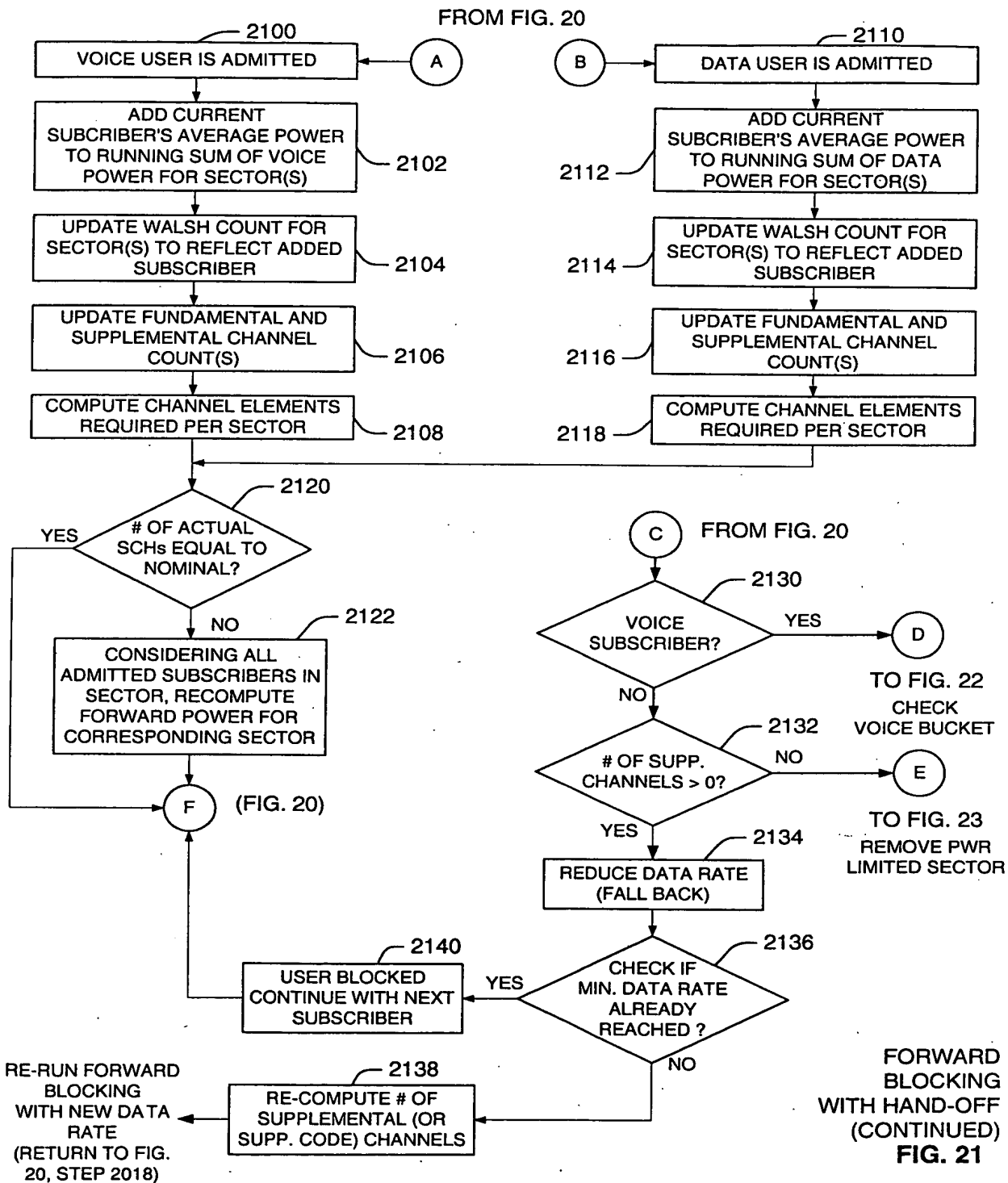


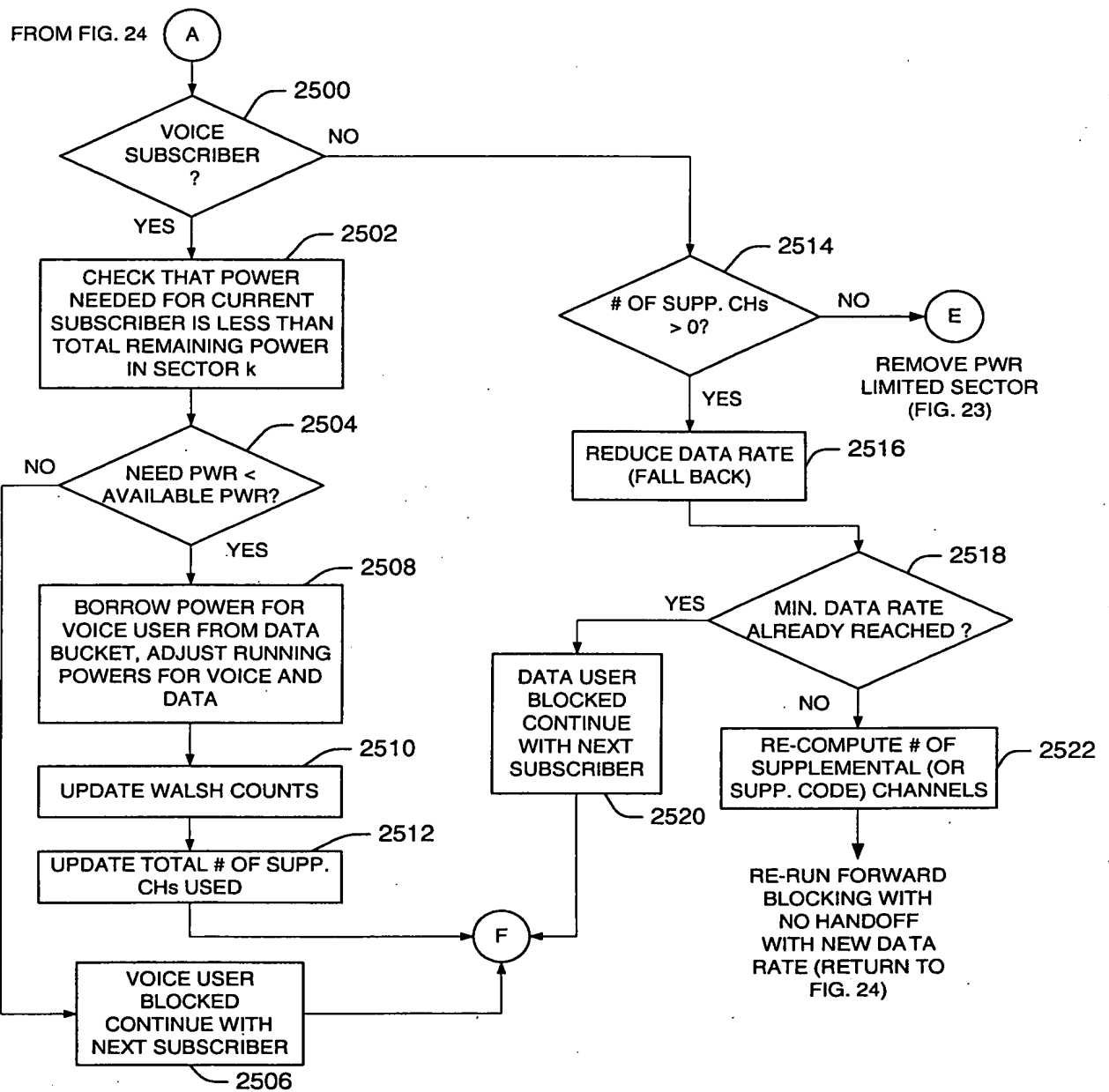
FORWARD CALL
ADMISSIONS/
BLOCKING
OVERVIEW
FIG. 17

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FORWARD BLOCKING
DETAILS (WITH
HAND-OFF)
FIG. 20





CHECK VOICE BUCKET
(BLOCKING WITH NO
HAND-OFF CONTINUED)

FIG. 25